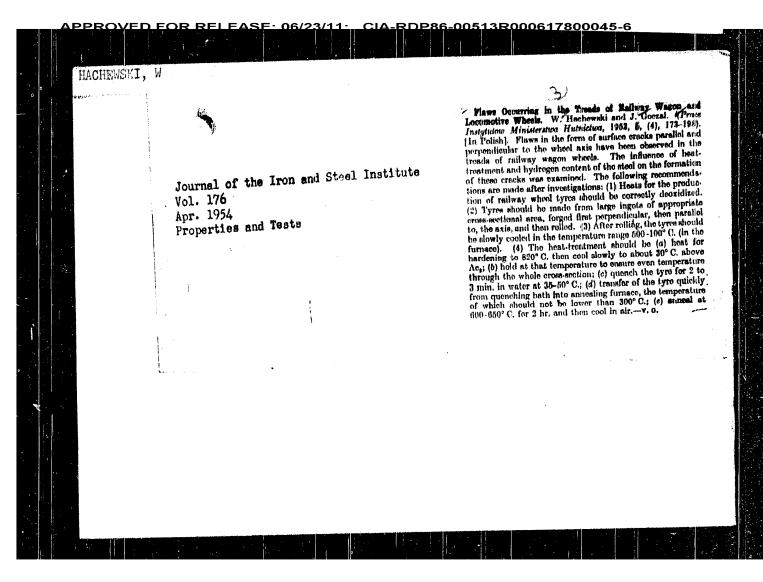
FARELIN, A. Thehlar, T. Transcript of the specific of the points for the points for and Vittee points for an 1052/53 winter. p. 106. OCHY'M TOTAL. Tol. 10, no. b, 1955. SO: Monthly list of Aust Suromoun amenaiona, (SMAP), 10, Vol. F, to. 11, Foy. 1066, Macl.

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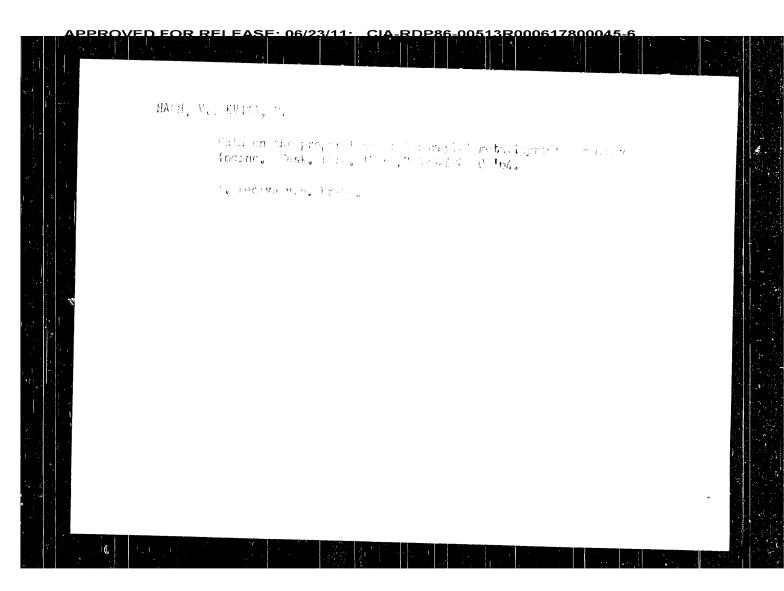
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Leciva, Dolni mechalupy and Rosearch Institute for Pharmacy and Biochemistry - (for all).

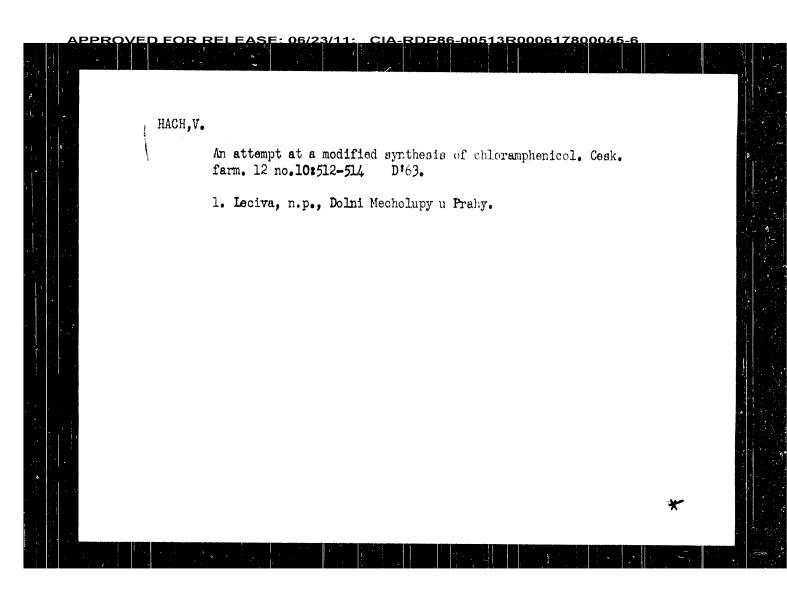
Prague, Collection of Czechoslovak Chemical Communications, No 11, November 1965, pp 3767-3771.

"Synthesis of (\pm) -4-methyllobeline."

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HACH, V.; KVITA, V.; KOLINSKY, J. Active animicrobic derivatives of p-dichloracetamidobenzoic acid. Coll Cz Chem 28 no.4:855-862 Ap 163. 1. Leciva, Dolni Mechnolupy bei Prag.



HACH, V; KVITA, V; KOLÍNSKÝ, J. Czechoslovakia Lěčiva, Dolní Měcholupy, near Prague - (for all) Prague, Collection of Czechoslovak Chemical Communications, No 4, 1963, pp 855-861 "Antimicrobe Active Derivates of p-Dichloracetamido-benzoic Acid."

HACH, V.; KVTTA, V.; KOLINSKY, J.; MACEK, K.

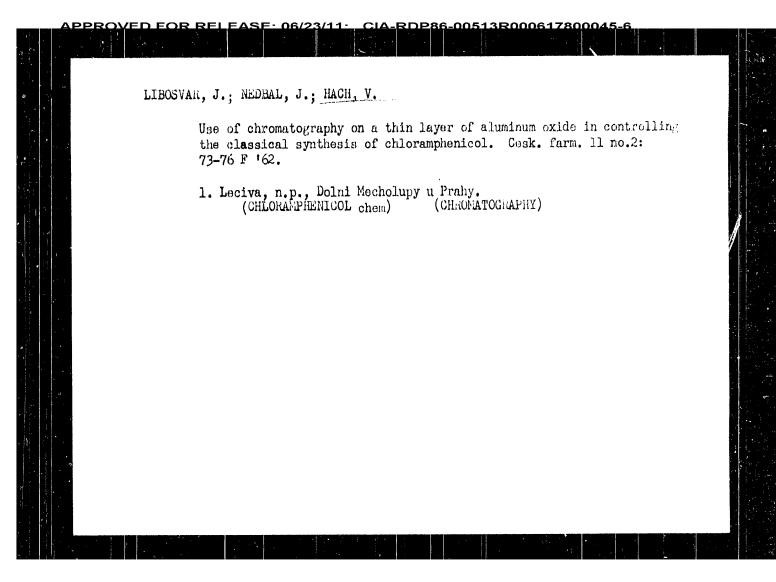
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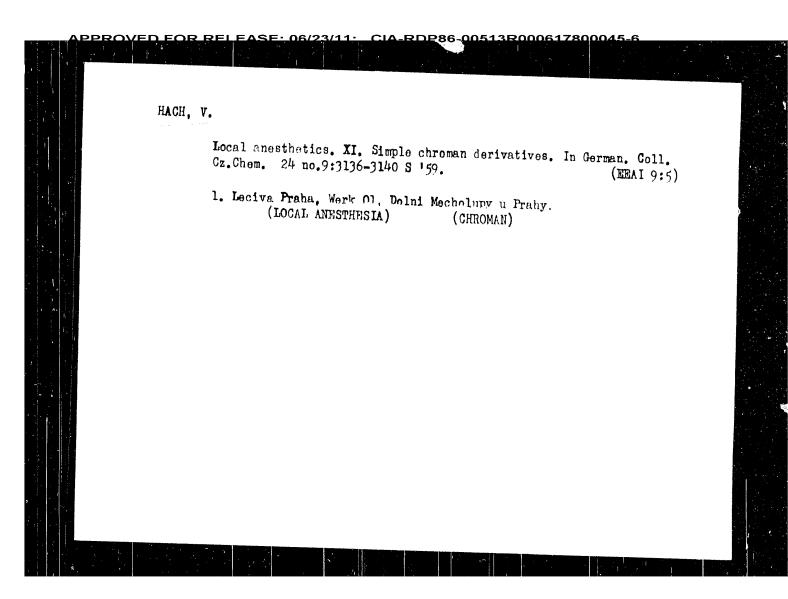
Prague, Collection of Czechoslovsk Chemical Communications; No 1, 1963, pp 266-271

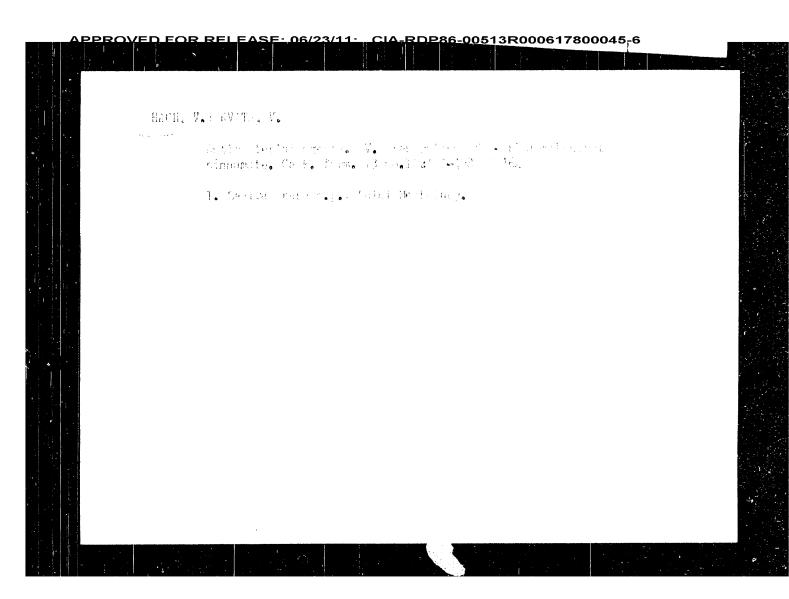
"Contribution to Bromization in the Acetophenon Series"

RDP86-00513R000617800045-6 NEDBAL, J.; HACH, V.; LIBOSVAR, J. Protracted effect of a polyethylene foil on the melting point of organic compounds. Cesk. farm. 11 no.6:320-322 J1 '62. 1. Leciva, n.p., Dolni Mecholupy u Prahy.
(POLYETHYLENES) (CHEMISTRY PHARMACEU TICAL)



TRINER, S.; HACH, V. Sulfamethoxypyridazine (Spofadazin). Cesk. farm. 10 no.9:482-486 161. (SULFAMETHOXYPYRIDAZINE)





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AUTHOR INST,	t ,	27,701	
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ABSTRACT	For Communication XLIV see RZhi	Khim, 1959. No 16	
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PPROVED FOR RELEASE: 06/23/11: CIA-RDP86-0<u>0513R000617800045-</u>6 : Chechoslevania CUUTATALL CATEGORY 17904 s AZKhime, No. 5 1960, No. ABS. JOUR. AUTEOR CRIG. PUB. : xylene is reflared for 5 hrs to give in, yield 6.5 gms, bp 195+198°/0.5 mm, picrate mp 180° (from ABSTRACT alc), hydrobromids mp 166°. 10 gms T are reflaxed (12 hrs) with 16.7 gms C14, COC; in 60 ml Co4, (or with 7.5 gms ClB2 CCH2 COCl in 70 mt C4 H6) to cave It, yield 91%, mp 148° (from alc), or Ic, yield 52%, mp 128-129° (from alc). A solution of ... gast Ic and 20 ml diethylamine in 75 ml benzene in refluxed for 10 hrs, the disthylamine hydrochloride which is precipitated is separated, the filtrate 0ATO4 5/7

COUMENT: Czechoslovakia GARGARY ARS. JURA: RZKhim., No. 5 1960 No. AUTHOR: INST.		120-july - Mariji - re-zimbari (darah Arimba)	and distribution	وهد و ساله که در		
AUTHOR INCT. GRIG. FUB. Sulfide-2-carbonylic acid (IV), yield 97%, mp 119° (from alc), diacetyl derivative mp 184° (from alc). (from alc), diacetyl derivative of polymeric to III gave only an amorphous product of polymeric to III gave only an amorphous product of polymeric nature. The reduction of 2.7 gms UI (0.7 gm Linature. The reduction of 2.7 gms UI (0.7 gm Linature. The reduction of 2.7 gms UI (0.7 gm Linature. The reduction of 2.7 gms UI (0.7 gm Linature. The reduction of 2.7 gms UI (0.7 gm Linature. The reduction of 2.7 gms UI (0.7 gm Linature. The reduction of 2.7 gms UI (0.7 gm Linature. The reduction of 2.7 gms UI (0.7 gm Linature. The reduction of 2.7 gms UI (0.7 gm Linature. The reduction of 2.7 gms UI (0.7 gm Linature. The reduction of 2.7 gms 3-dimethyl-		1 '	9	Czechoslovakia	6-2	
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(from alc), diacetyl derivative mp 179° (from alc), diacetyl derivative derivative tion of TV Attempts to effect the thermal cycliz tion of TV Attempts to effect the thermal cycliz tion of TV to III gave only an amorphous product of polymeric to III gave only an amorphous product of polymeric nature. The reduction of 2.7 gms III (0.7 gm II- nature. The reduction of 2.7 gms III (0.7 gm II- with 100 ml abs ether, l6-hr reflux, hydrolysis with 20 ml 40% NaOH) gives I, yield 88%, mp 127° with 20 ml 40% NaOH) gives I, yield 88%, mp 179° (from (from alc), hydrochloride derivative mp 179° (from		caro. Pre.	, :			
			Ŝ	Attempts to effect the thermal cycle to III gave only an amorphous production of 2.7 gms I with 20 ml 40% NaOH) gives I, yield (from alc), hydrochloride derivative to the control of 2.7 gms I, yield (from alc), hydrochloride derivative transfer of 10 gms I, 2.5 ms	iz tion of TV let of polymeric II (0.7 gm L1-lix, hydrolysis 188%, mp 127° ve mp 179° (from gms 3-dimethyl-	

0-2 Czechoslovakia COUNTRY CATEOORY 17904 : RZKhim., No. 5 1960, No. ABS. JOUR. SCHEUA INC. TITLS ORIG. PUB. 8 in alcohol (150 mg [sic]) at about 20° and atmospheric pressure gives the methyl ester of 2'-ABS TRACT amino-4'-chlorodiphenylsulfide-2-carboxylic acid (II), yield 70%, mp 137° (from CH, OH), acetyl derivative mp 151° (from alc). II on heating (220-230°, 8 hrs) cyclizes to give the lactam of 21amino-4'-chlorodiphenylsulfide-2-carboxylic acid (III), yield 24.2 gms, mp 290° (from CH, COCH). Reduction of the methyl ester of 2', 4'-dimitrophenylsulfide-2-carboxylic acid analogously to II gives the methyl ester of 2',4'-disminodiphenyl-CARDS 3/7

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and tract	dickloronitrobensene in 50 al CH, OH to rive the methyl ester of 2'-nitro-4'-chlorodiphenylsult	ee iide-j lost.
:	methyl ester of 2'-natro-4'-Chaptonetholder of 2-carboxylic sold (yield 640, mp 81° (from 65, which on reduction (15.1 pms) over Raney Si (a	(gras)
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PPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800045-6 Čzechoslovskia THE WINDS CATEGORY 17904 : RZKhim., No. 5 1960, No. ARS. JOUR. Protive, M. and Hach, V. MUMBER Not styen Antihistamine Compounds. XIV. Hemophenethissine Analogs of Chloropromezine and Some Related 0.5 Collection Czechoslov Chem Commun, 24, Ro 1, 207-ORIO. PUB. The authors report the synthesis of 2-chlorohemophenothiazine ($\underline{\pi}$, R = \underline{H}) and of a number of its ADSTRACT derivatives (Ia-e, where Ra = (CH,), N(CH,)2 , Rb = COOP, C1, Re = COCA, CE, C1, Rd = COCA, N(C, R,), , and He = COCH, N(CH,);) possessing antihistamine, local anesthetic, and milely hypothermic actions. The Na salt of the methyl ester of throsalicylic acid (obtained from 16.5 gms of the ester and 2.3 gms Na in 150 mg [sic] OH, OH) is refluxed for o hrd with the addition of a solution of 19.2 gmm 2.5-1/6 PATE A

CIA-RDP86-00513R000617800045-6 PPROVED FOR RELEASE: 06/23/11: Country (j-2 : Czechoslovakia Caregory Abs. Jour : 45888 Author : , Mach, V. and Protive, M. Institut. : Not given Title : Antihistamine Compounds. ALTI. Derivatives of 1-Aza-4-thia-2,3-5.6-4.bonrocyclonepradione (Homopheno Miazine) Orto Pub. : Collection Czechoslev Chem Commun. 23, No 10, 1941-1946 (1938); Chem Flate. 51, 1979 (1957) Abstract : See RZhKhim, No 25, 1908, 77702. Card: 1/1

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MACH. V M. Borovicka and V. Hach, "Naturstoffe als Arzneimittel Fortschritte im Jahre 1956," <u>Die Pharmazie</u> (Berlin), 13/2, February 1958, pp. 65-72. Received on 26 June 1957. Dr. M. Borovicka's address is cited as Research Institute for Fharmacy and Biochemistry, Frag XII, Kourimska 17. The authors express their thanks to their colleagues, Dr. J. C. Jilek and J. Pomykacek, for their assistance in the preparation of this paper.

PPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800045-6 CZECHOSLOVAKIA/Organic Chemistry. Natural Substances and G Their Synthetic Analogues. Abs Jour: Ref Zhur-Khimiya, No 22, 1958, 74167. double bond was not established in the case of hexenyl compounds VII, VIII and XI to XIV; it is assumed by analogy with bibliographical indications that they are \(\shcap \) -compounds. The meltings points were determined in a Kofler block, and those denoted "not adjusted" were determined with a capillary. : 11/11 Card

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Abs Jour: Ref Zhur-Khimiya, No 22, 1958, 74167.

melt. p. 177¹³ (from alc. + eth.). Hexahydrohordenine (XVIII) was produced by hydrogenating XVII on Pt from PtO₂ in CH₁COOH, yield 58%, boil. p. 132 to 134 10 mm; 2-(cyclohexylethyl)-dimethyl-amine was separated as a by-product of hydrogenation, yield 19%, boil. p. 82 to 84 10 mm; picrate, melt. p. 154 (not adjusted, from alc.). 3,4,5-trimethoxybenzoate of XVIII (XIX), semisold if impure, was synthetized of XVIII and 3,4,5-trimethoxybenzoylchloride by seasoning (about 12 hours) in C₂H₆; hydrochloride, melt. p. 214 (not adjusted, from alc. + eth.). V and X show a hypotensive activity same as their aromatic analogues described in the report I (see RZhKhim, 1958, 61101). The substance XIX is not active. The position of the

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CZECHOSLOVAKIA/Organic Chemistry. Natural Substances and Their Synthetic Analogues.

Abs Jour: Ref Zhur-Khimiya, No 22, 1958, 74167

by the oxidation of the above mentioned mixture by seasoning it 3 days in Na, Cr, O7 solution in dilute H, SO4, yield 28%, melt. p. 103 to 106 (from petr. eth. + ethylacetate); semicarbazone, melt. p. 185 (from water); ethyl ether 2,4-dinitrophenylhydrazone, melt. p. 150 to 152 (from alc.). 2-(4-methoxyphenyl)-ethylamine was methylated by 8 hours' heating with 98%-ual HCOOH and 37%-ual CH,0 to hordenine methyl ester (XVI), yield 37%, boil. p. 122 to 125 /10 mm, hydrochloride, melt. p. 173 to 174 (not adjusted). Hordenine (XVII) was prepared of XVI by Buck's method (Buck J.S. and others, J. Amer. Chem. Soc., 1938, 60, 1789), yield 74%, melt. p. 1170 (not adjusted); hydrochloride,

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CZECHOSLOVAKIA/Organic Chemistry. Natural Substances and Their Synthetic Analogues.

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Abs Jour: Ref Zhur-Khimiya, No 22, 1958, 74167.

-methoxyadipinic acid in the mixture toluenealcohol in the presence of H,304 at a simultaneous azeotropic removal of water leads to ethyl ester of -methoxyadipinic acid, yield 80%, boil. p. 118 to 120 /2.5 mm, n D = 1.4336. By the reduction of EE of 4-oxyphenylacetic acid in alcohol on Raney's nickel in the presence of C,H,ONa under 125 atm and at 150 to 160°, EE of 4-oxycyclohexylacetic acid was obtained, yield 61%, boil. p. 115 to 116 /0.4 mm, which was saponified by 2 hour boiling with NaOH solution in aqueous alcohol to a mixture of stereoisomeric 4-oxycyclohexylacetic acids, yield 94%, melt. p. 110 to 120° (raw). 4-oxycyclohexylacetic acid was prepared

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Abs Jour: Ref Zhur-Khimiya, No 22, 1958, 74167.

solution with dilute HCl, and evaporation of the acid solution in vacuo, melt. p. 231 to 232° (from iso-C.HrOH + alc.); picrate, melt. p. 190° (from alc.). When the reaction mixture had been decomposed with water after the reduction of XI and the ether layer, dried with the application of K₁CO₃, had been distilled, a base (XV), boil. p. 104 to 106/10mm, was obtained, the hydrochloride of which is of the same composition as XIV, and the melt. p. is 162° (from acetone + alc. + eth.); picrate, melt. p. 148 to 149° (from alc.). It is surmised that a change of the position of the double bond takes place at the distillation of the base of XIV and that XV is 2-(4-methoxycyclo-hexylidene)-ethylamine. The esterification of the

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CZECHOSLOVAKIA/Organic Chemistry. Natural Substances and Their Synthetic Analogues.

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Abs Jour: Ref Zhur-Khimiya, No 22, 1958, 74167.

above mentioned acid with a yield of 94% by 3 hours of seasoning and 1 hour of boiling with SOCL2 was converted into tryptamide of 4-methoxycyclohexylacetic acid similarly to II by reducing with III, yield 56%, melt. p. 102° (from benzene); that tryptamide was cyclized similarly to IV to the corresponding dihydro base, by the reduction of which with Na in alcohol 1-(4-methoxy-cyclohexyl)-methyl-1,2,3,4-tetrahydronorharman (X) was prepared, yield 82%; hydrochloride, melt. p. 245 to 247° (dissociates, from aqu. alc.); methanesulfonate, melt. p. 254 to 255° (from aq. alc.). 4-methoxycyclohexenylacetonitryl (XI), boil. p. 118 to 121°/10 mm, was prepared of VII and cyanacetic acid in C₄H₄ in the presence

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CZECHOSLOVAKIA/Organic Chemistry. Natural Substances and Their Synthetic Analogues.

Abs Jour: Ref Zhur-Khimiya, No 22, 1958, 74167.

KOH solution in alcohol, yield 85%, boil. p. 150 to 152°/2 mm, melt. p. 27 to 30°. Hydrogenation of VII on Pto. in CH3COOH resulted in EE of 4-methoxycyclohexylacetic acid (IX), boil. p. 120 to 122°/20 mm. By hydrogenation of the aqueous solution of Na salt of VIII on Raney's nickel under 105 atm. at 80 to 90°, or by 12 hour boiling of IX with KOH solution in alcohol, cis-(?)-4-methoxycyclohexylacetic acid was produced, yield 80%, boil. p. 151 to 152°/3 mm, melt. p. 19 to 22°; S-benzylisothiouronic salt, melt. p. 145 to 146° (from alc.). 4-methoxycyclohexylacetyl chloride, boil. p. 108 to 111°/10 mm, synthetized of the

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CZECHOSLOVAKIA/Organic Chemistry. Natural Substances and Their Synthetic Analogues.

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Abs Jour: Ref Zhur-Khimiya, No 22, 1958, 74167.

tion by NH₁OH; that base was reduced with 12 g of Na in 120 ml of alcohol to 1-cyclohexylmethyl-1,2,3,4-tetrahydronorharman (V) (yield 3.6 g); hydrochloride, melt. p. 245 to 246 (from alc.); metasulfonate, melt. p. 262 to 265 (from aqu. alc.). Ethyl ester (EE) of 1-oxy-4-methoxycyclohexylacetic acid was synthetized of 4-methoxycyclohexanone (VI) and CH₂Br-COOC₂H, in C₄H₄ by the reaction of Reformatskiy, yield 64%, boil. p. 110 to 111 / 1.6 mm; it produced the EE of 4-methoxycyclohexenylacetic acid (VII) after 4 hours of action of SOCl₂ in pyridine in an ice bath, boil. p. 120 / 14 mm. 4-methoxycyclohexenylacetic acid (VIII) was prepared by 12 hour boiling of VII with

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CZECHOSLOVAKIA/Organic Chemistry. Natural Substances and Their Synthetic Mnalogues.

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Abs Jour: Ref Zhur-Khimiya, No 22, 1958, 74167.

action of SOCl, yield 92%, boil. p. 85 to 88°/20 mm. The tryptamine salt of I was synthetized of tryptamine (III) and I, yield 88%, melt. p. 181 to 182° (from alc.), and converted into tryptamid of I (IV) by heating it 45 min. to 190 to 200°, little yield, melt. p. 79 to 81° (from benzene). IV was obtained with a considerably greater yield (85%) of III and II by cooling them in C, H, in the presence of 4%-ual aqueous NaOH solution. A solid impure dihydro base was prepared by boiling 3.9 g of IV with 10 ml of POCl; in 100 ml of C, H, in the duration of 2 hours, evaporating in vacuo, dissolution in 60 ml of 75%-ual CH; COOH, and precipita-

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CZECHOSLOVAKIA/Organic Chemistry. Natural Substances and

Their Synthetic Analogues.

Abs Jour: Ref Zhur-Khimiya, No 22, 1958, 74167.

Author: Miroslav Protiva, Jiri O. Jilek. Vladimir Hach, Edita Adlerova, Vladimir Mychajlyszyn.

Inst : American Chemical Society.

Title : Synthetic Models of Blood Pressure Depressing Alkaloids.

II. Simple Models of Reserpine With Cyclohexane Ring.

Orig Pub: Chem. listy, 1957, 51, No 11, 2109-2117.

Abstract: Cyclohexylacetic acid (I) was prepared by the reduction of a solution of sodium cyclohexylidene-

acetate on Raney nickel under 110 atm. at 1000, yield 86%, boil p. 123 to 125°/5 mm; it was converted into cyclohexylacetylchloride (II) by the

Card : 1/11 CZECHOSLOVAKIA/Organic Chemistry. Synthetic Organic Chemistry. G

Abs Jour: Ref. Zhur-Khimiya, No 19, 1958, 64393.

ture ~ 20°) there is obtained, with a low yield,
2-carbethoxy-6-acetoxycyclohexanone, boiling point
80-83'/0.35 mm. Analogously from 2-methoxycyclohexanonone is synthesized 2-carbethoxy-6-methoxycyclohexane,
boiling point 125-130'/10 mm. Report XV, see RZhKhim,
1958, 54013.

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CZECHOSLOVAKIA/Organic Chemistry. Synthetic Organic Chemistry.

Abs Jour: Ref. Zhur-Khimiya, No 19, 1958, 64393.

of POCl, in CCl4 was transformed into 5-methoxytetralone (XII), yield 52%, melting point 88-89°. The action of SO_Cl2 on XII (10 minutes, at temperature of 20°) leads to 2.2-dichlor-5-methoxytetralone, melting point 100° (from petroleum ether) and the processing of XII Br; into CH3COOH (one hour at temperature 20°) leads to 2-brom-5-methoxytetralone, melting point 93° (from petroleum ether). The action of SO_Cl2 on decalindione-1.5 leads to dichloride, which is 2.2-dichlordecalindione-1.5 or 2.6-dichlordecalindione-1.5, yield 37%, melting point 153-154° (from tzl. petroleum ether). By the interaction of 2-acetoxycyclohexanone with diethyloxalate in C4H, in the presence of dry CH5ONA (7 hours, at a tempera-

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CZECHOSLOVAKIA/Organic Chemistry. Synthetic Organic Chemistry.

Abs Jour: Ref. Zhur-Khimiya, No 19, 1958, 64393.

is synthesized, which with malonic ether in C₅H₅N in the presence of piperidine give o-isopropoxycinnamic acid / yield 64%, melting point 125 (from 30% alcohol) / reduced by an amalgam of Na to VIII, yield 78%, boiling point 135-140 /0.3 mm, melting point 51 /(from water). The following transformations were also realized. The reduction of VII LiAlH leads to 3-(o-methoxyphenyl)-propanol (yield 60%, boiling point 117-120 /0.5 mm), which with PBr; gives 3-(o-methoxyphenyl)-propylbromide, yield 58%, boiling point 85-89 /0.5 mm; the latter with KCN forms \(\frac{1}{2}\) -(o-methoxyphenyl)-butyronitrile (yield 74%, boiling point 145-155 /12-14 mm), converted by saponification into \(\frac{1}{2}\) -(o-methoxyphenyl)-butyric acid (yield 73%, boiling point 145-147 /0.3 mm, melting point 40°/, which during cyclization under the action

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Abs Jour: Ref. Zhur-Khimiya, No 19, 1958, 64393.

/yield 71.5%, melting point 74° (from alcohol), which during hydrogenation over Pt (from PtO₂) in alcohol ethyl ether forms a-cyan- \(\begin{align*} \) -(o-methoxyphenyl)-propione acid (X), and during boiling (16 hours) with aqueous CH₂COOH-H₂SO₄ gives o-methoxycinnamic acid (XI), yield 51%, melting point 182° (from water). X is obtained also with 90% yield from O-CH₂OC₄H₄CHO and malonic ether in C₂H₅N in the presence of piperidine. Boiling of X with aqueous H₂SO₄ (8 hours) or reduction of XI by an amalgam of Na lead to VII, yield 72.5 and 80%, melting point 90-91° (from water). For obtaining VIII by boiling (30 hours) of salicyl aldehyde with iso-C₂H₇Br in the presence of C₂H₅ONa and KI, o-isopropoxybenzaldehyde (yield 27%, boiling point 72-73°/0.3 mm)

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CZECHOSLOVAKIA/Organic Chemistry. Synthetic Organic Chemistry.

Abs Jour: Ref. Zhur-Khimiya, No 19, 1958, 64393.

a method described (Janisch A., Ber., 1923, 56, 2448), yield 24%; c) by nitrating of the hydrocinnamic acid by a method described (Konek F.V., Pacsu E., Ber., 1918, 51, 855) with a subsequent division of II and n-nitrohydrocinnamic acid (IX), melting point 164°. Chlorohydrid II during condensation with C_bH_b in the presence of AlCl; (4 hour boiling) forms β-(o-nitrophenyl)-propiophenone, yield 40%, melting point 67-68° (from alcohol); analogous condensation of chlorohydrid of IX leads to β-(n-nitrophenyl)-propiophenone, yield 76%, melting point 92-93° (from alcohol). VII is obtained in the following manner. Condensation of o-CH_bOC_bH_cCHO with CNCH_bCOOC_bH_c in alcohol in the presence of piperidine leads to ethyl ether of a-cyan-o-methoxycinnamic acid

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CZECHOSLOVAKIA/Organic Chemistry. Synthetic Organic Chemistry.

Abs Jour: Ref. Zhur-Khimiya, No 19, 1958, 64393.

a water bath) leads into hydrindandiol-1.4 (yield 25%, boiling point 122-126°/0.5 mm), which during oxidation by the chrome mixture in aqueous CH,COOH transfers in I, yield 61%; Big-2,4-dinitrophenylhydrazine, melting point 220-223' (from bzl-petroleum ether). The cyclization of o-methoxyhydrocinnamic acid (VII) and o-isopropoxyhydrocinnamic acid (VIII) (under theaction of polyphosphoric acid, P,O-in bzl, H,SO4 or PCCl; in CCl4 or xylene) in 4-methoxyindanone and accordingly in 4-isopropoxyindanone from which it would be possible to obtain I, was not successful. II is synthesized by three ways: a) by boiling (24 hours) of // -(o-nitrophenyl)-propionic acid, which after boiling with the solution H,SO4 (1 hour) was transferred into II, 40% yield (unpurified); b) from o-NO2C H+CH2Cl and malonic acid by

Card : 3/8

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CZECHOSLOVAKIA/Organic Chemistry. Synthetic Organic Chemistry.

Abs Jour: Ref. Zhur-Khimiya, No 19, 1958, 64393.

95%, melting point 123-124 (from bzl.), monodiazotization and subsequent heating (15 minutes at 40) lead to 4-oxyindanone (IV), yield 83%, melting point 240 (from aqueous alcohol); oxime (V), melting point 186 (from aqueous alcohol) IV is also synthesized from dehydrocoumarin by a method described (RZhKhim, 1955, 37283), yield 42%. During hydrogenation of V over Pt (from PtO₂) in CH₂COOH, there is formed 1-amino-cishydrindan / yield 21.3%, boiling point 60-62 /0.5 mm; picrate, melting point 182-184 (from alcohol); N-benzoyl derivative, melting point 182-183 (from 50% alcohol) and 1-amino-cis(?)-hydrindanol (VI) /yield 32%, boiling point 122-125 /0.5 mm, melting point 75-77 (from petroleum ether). Monodiazotization of VI in 25% CH, COOH and subsequent heating (2.5 hours in

Card : 2/8

HACH, VL.

CZECHOSLOVAKIA/Organic Chemistry. Synthetic Organic Chemistry.

Abs Jour: Ref. Zhur-Khimiya, No 19, 1958, 64393.

: Hach Vladimir, Protiva Miroslav Author

Inst

: Synthetic Research in the Area of Estrogenic Hormones. Title

XVI. Synthesis of Hydrindandione - 1.4

Orig Pub: Chem. Listy, 1957, 51, No 11, 2099-2108.

Abstract: Hydrindandione-1.4 (I) is synthesized from o-nitrohydrocinnamic acid (II) by the following manner. The cyclization of acid chloride II with the application of AlCl₃ in CS₂ leads to 4-nitroindanone (III), yield 62%, melting point 103 (from petroleum ether or alcohol): oxime, melting point 204 (from alcohol). During hydrogenation of III over PtO₂ or over skeleton Ni in alcohol,

4-amino-indanone is formed, yield in the latter case

: 1./8 Card

CZECHOSLOVAKIA / Organic Chemistry. Synthetic Organic G-2 Chemistry.

Abs Jour: Ref Zhur-Khimiya, No 23, 1958, 77702.

Abstract: alc). Using a procedure similar to that used in the preparation of V, N-(2-piperidinoethyl)-IV (VI) is obtained from IV and ClCH₂ CH₂ CH₂ NCH₂ CH₂ CH₂ CH₂ CH₂, bp 180°/0.5mm; acid salt of succinic acid mp 150-151° (from alc); P mp 165° (from alc). Similarly IV and 1-dimethylamino-2-chloropropane give N-(2-dimethylaminopropyl)-IV, yield 66%, bp 165-170°/0.5mm; P mp 158° (from alc); IV and 1-dimethylamino-3-chloropropane give N-(3-dimethylaminopropyl)-IV, yield 67%, bp 169-173°/0.5mm; hydrobromide mp 157° (from ether alc); P mp 135° (from alc). Heating of IV for 3 hrs with ClCH₂ COCl in C₆ H₆ at 80° gives N-(chloroacetyl)-IV (VII), yield 78%, mp 103° (from alc);

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CZECHOSLOVAKIA / Organic Chemistry. Synthetic Organic G-2 Chemistry.

Abs Jour: Ref Zhur-Khimiya, No 23, 1958, 77702.

Abstract: at normal pressures gives the methyl ester of 2'-aminodiphenylsulfonic-2-carboxylic acid (II), yield 100%, mp 95-96° (from 75% alc); picrate (P) mp 167° (from alc). Heating II for 7 hrs at 200-220° gives the lactam of II (III), yield 86%, mp 239-242° (evap; from aqueous alc). The reduction of III by refluxing for 30 hrs with LiAlH₄ in ether gives 1-aza-4-thia-2,3:5,6-dibenzocycloheptadiene (homophenothiazine) (IV), mp 115° (from alc). Refluxing IV for 10 hrs with NaNH₂ and C1CH₂ CH₂ N(CH₃) in xylene gives N-(2-dimethyl-aminoethyl)-IV (V), yield 5% bp 160-165°/0.5mm; hydrochloride mp 206° (from ether-alc); P mp 156° (from alc): iodomethylate (IM) mp 195° (from ether-

Card 2/4

Synthetic Organic G-2 CZECHOSLOVAKIA / Organic Chemistry.

Chomistry.

Abs Jour: Ref Zhur-Khimiya, 23, 1958, 77702.

: Hach, V. and Protiva, M. Author

: Not given. Inst

: Antihistamines. XLII. Synthesis of 1-aza-4-Title thia-2,3-5,6-dibenzocycloheptadieno (homopheno-

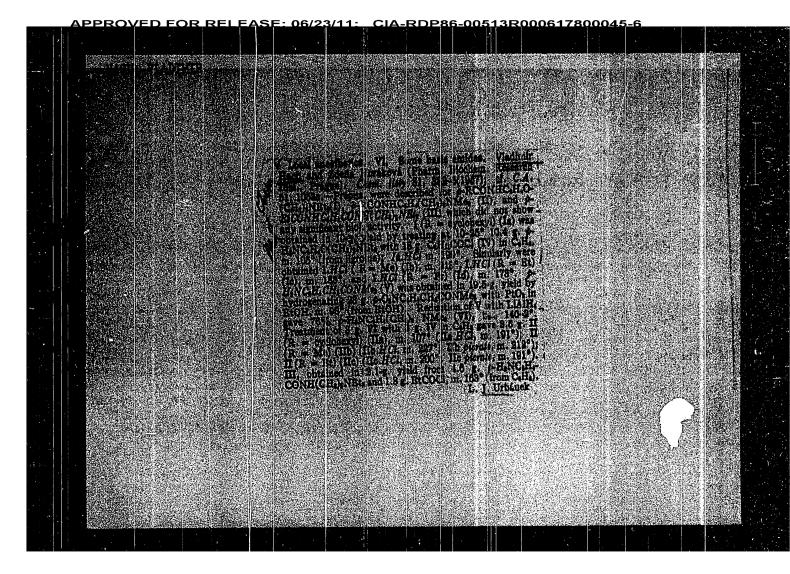
thiazine).

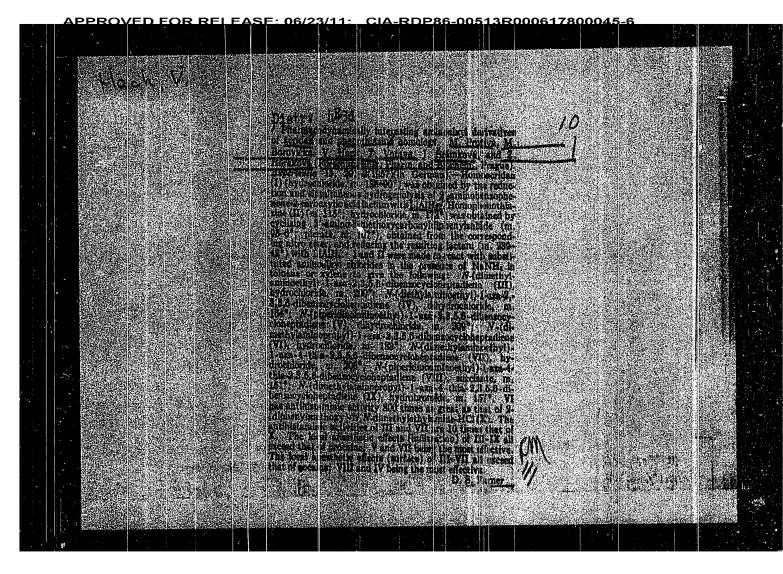
Orig: Pub: Chem Listy, 51, No 10, 1909-1914 (1957) (in Czech).

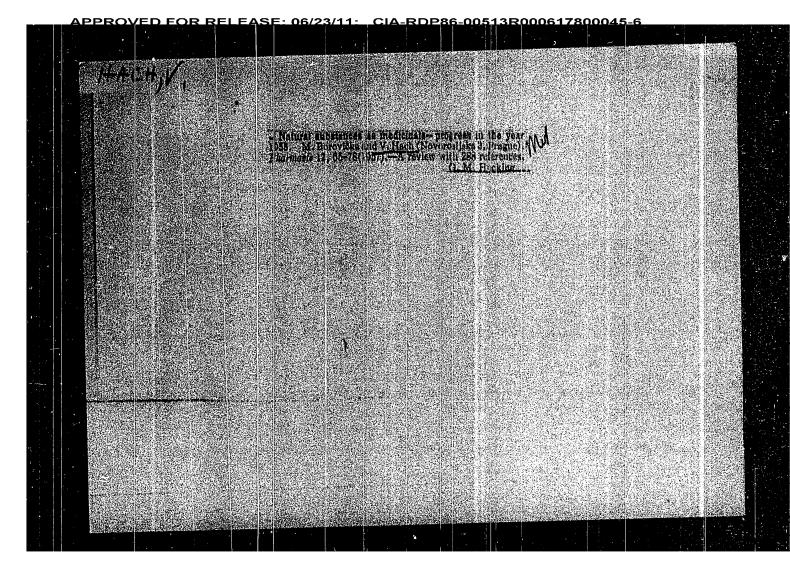
Abstract: When the methyl ester of thiosalicylic acid is added to a solution of ${\rm CH_3}$ ONa in ${\rm CH_3}$ OH and the mixture is heated for 15 hrs with o-NO2 C6 H4 C1 (50°), the methyl ester of 2'-nitrodiphenylsulfodicarboxylic-2 acid (I) is obtained, yield 55%, mp 92-930. The reduction of a methanolic solution of I over Pt (from PtO2) or over Raney nickel

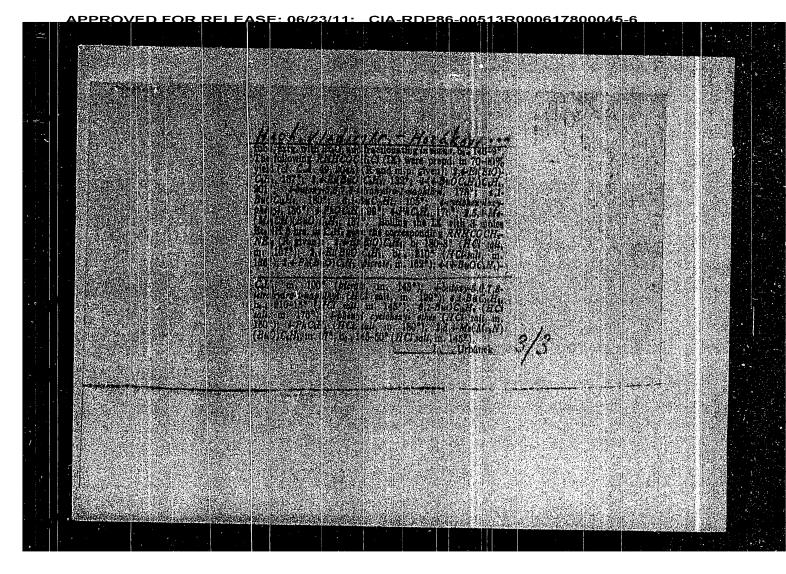
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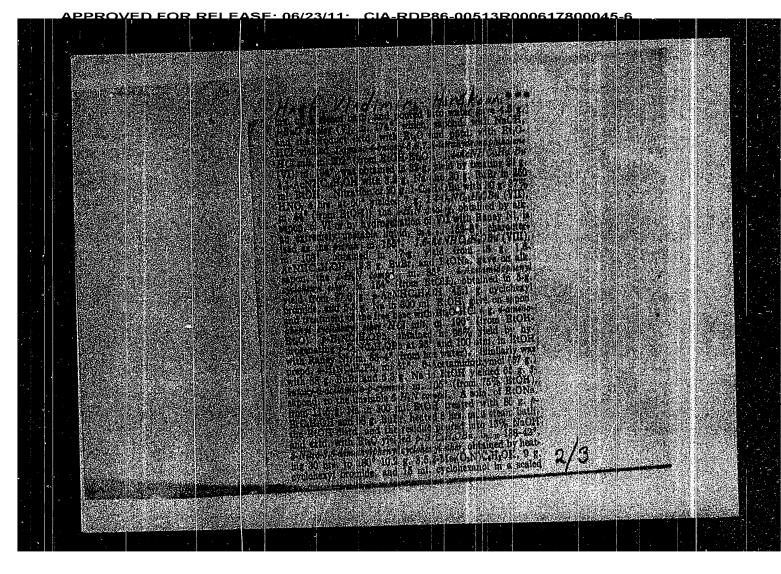
MCE, V., and others. "Local encethetics. VII. Inclose of diethylamineacetylecardice." In terms. p. 1987. (Shormik Chekheslover, kich kidericherkikh hatot, Vol. 27, Fe, 7, bec. 1987. Praha, Urscheslovekka) Monthly index of last European Accession (Mafi) 10, Vol. 7, No. 8, August 1913

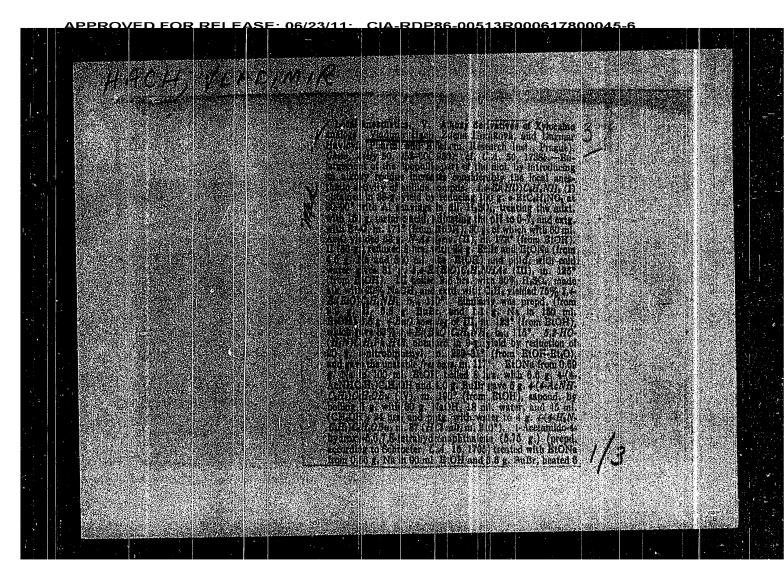


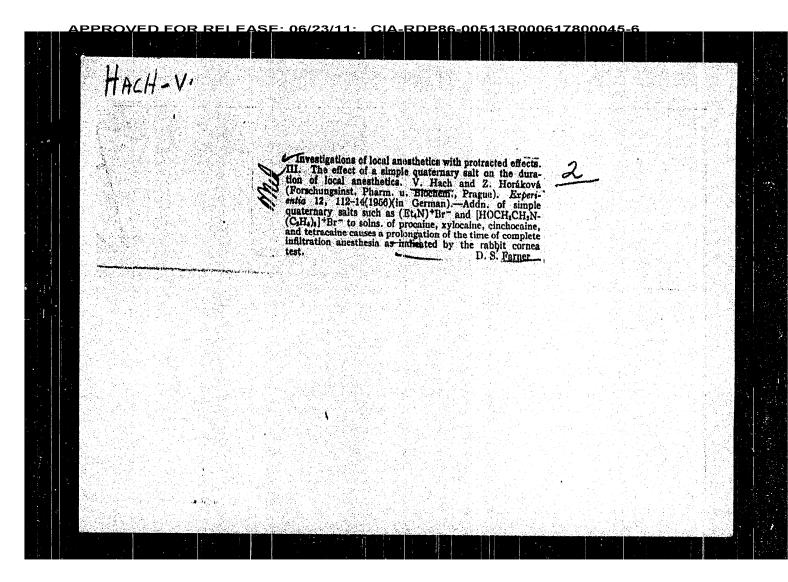


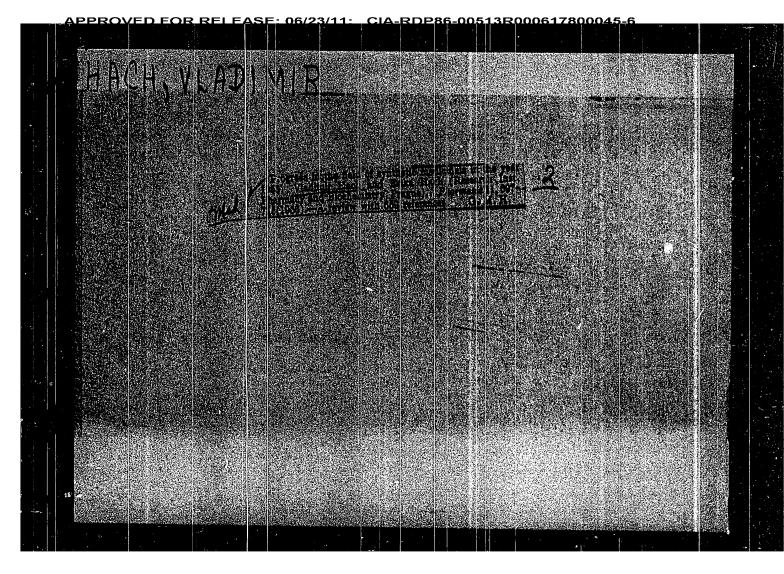












CZECHOSLOVAKIA/Chemical Technology - Chemical Products and

H-17

Their Application. Medicinal Substances. Vitamins.

Antibiotics.

Abs Jour

: Ref Zhur - Khimiya, No 17, 1958, 58407

melting point 152-156°; after recrystallization from absolute alcohol, 163-164°; base IV, melting point 54° (from petroleum ether). After two crystalizations 18 g (66%) of monochlorohydrate I is obtained by reduction of 30.1 g of IV with 0.3 PtO₂; melting point 165-169°, base, melting 47-48° (from benzol-petroleum ether). The salts of base IV are described: picrate, melting point 206°; oxalate, melting point 155°; succinate, melting point 123°; bromhydrate, melting point 149°; n-nitrobenzoate, melting point 133°. Salts of I: picrate, melting point 148°, dichlorohydrate, melting point 200°.

Card 2/2

HACH V.

CZECHOSLOVAKIA/Chemical Technology - Chemical Products and

Their Application. Medicinal Substances. Vitamins.

H-17

Antibiotics.

Abs Jour : Ref Zhur - Khimiya, No 17, 1958, 58407

Author : Hach, V., Koppova, E.

Inst : -

Title : On the Question of the Chemical Properties of 2-Diethy-

lamineethylamid of n-aminobenzoic Acid.

Orig Pub : Ceskosl. farmac., 1956, 5, No 10, 582-583.

Abstract: The 2-diethylaminethylamid of n-aminobenzoic acid (I)

is obtained by the reaction of n-nitrobenzol-chloride (II) with 2-diethylamicthylamine (III). 24 g of III are dissolved (boiling point 143-149°) in 200 ml of dry C₆H₆ and, during cooling and blending, a solution is added of 37 g of II in 200 ml of C₆H₆. After 15 hours at 20°, 54 g (90%) of monochlorohydrate 2-diethylamine that aride of n mitrobourseld and (IV) to extraor

laminoethyl amide of n-nitrobenzoid acid (IV) is extrac-

ted;

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Card 1/2

RDP86-00513R000617800045-6 HORAKOVA, Z; HACH, V.; ROTH, Z.; MATOUSKOVA-SMOLKOVA, H. Local anesthetic action and certain remote pharmacological properties of alkoxy derivative of xylocaine. Cesk. fysiol. 5 no.4:460-470 1956. 1. Vyskumny ustav pro Farmacii a Biochemii, Praha. (LIDOCAINE, related compounds, alkoxy deriv., local anesth. & pharmacol. (Cz))

CZECHOSLOVAKIA/Organic Chemistry. Synthetic Organic E-2

Abs Jour: Ref Zhur - Khimiya, No. 8, 1957, 26841.

later it was decomposed with the solution of NaHCO₂, the precipitate was suspended in ether and converted by HCl (gas) into chlorohydrate of IX, melting point 182-183° (from alcohol—ether). Chlorohydrate of X, melting point 206-207° (from alcohol—ether) was obtained from VI and VII. 3.1 g of chlorohydrate of VIII in 300 ml of alcohol was hydrogenated over 0.4 g of PtO₂, alcohol was distilled off, the base was separated by soda solution and extracted by ether, XI was obtained, yield 90%, melting point 140-141° (from alcohol—petroleum ether). XII was produced from IX in the same way, yield 75%, melting point 139-141° (from alcohol—petroleum ether) petroleum ether), and XIII from X, yield 60%,

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CZECHOSLOVAKIA/Organic Chemistry. Synthetic Organic Chemistry.

E-2

Abs Jour: Ref Zhur - Khimiya, No. 8, 1957, 26841.

chlorohydrate of II and LiAlH, yield 47%, melting point 98-100° (from petroleum ether). When boiled with HBr (acid, 1 * 3), V splits producing piperidine bromohydrate, melting point 230-232° (from alcohol). Chlorohydrate of VI, melting point 205° (from alcohol-ether) was received from chlorohydrate of III similarly to IV, yield 74%. The mixture of the solution of IV (separated with soda from 5 g of chlorohydrate) in 75 ml of CHCl3 and of the solution of 3 g of VII in 75 ml of CHCl3 and of the solution of 104-165° (from alcohol-ether) was distilled dry in air, chlorohydrate of ViII, melting point 164-165° (from alcohol-ether) was in the residue. Solution of 4 g of V and 3 g of VII in 25 ml of pyridine was heated (100° 3 min.), 48 hours

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CZECHOSLOVAKIA/Organic Chemistry. Synthetic Organic E-2
Chemistry.

Abs Jour: Ref Zhur - Khimiya, No. 8, 1957, 26841.

obtained from IV to VI at a low yield by the interaction with n-nitrobenzoylchloride (VII). VIII to X produced corresponding n-aminobenzoates (XI, XII and XIII) by hydrogenation over PtO2. IV, V and VI were obtained in the shape of one stereoisomer in all cases. In the duration of 20 min. 18 g of chlorohydrate of I was introduced into the suspension of 1.8 g of LiAlH, in 1400 ml of absolute ether, the mixture was boiled 10 minutes, decomposed with 20 g of NaOH and 250 ml of water and extracted with ether; HC1 (gas) was let through the dry distilled down ether extract and chlorohydrale of IV was received, yield 61%, melting point 202-2030 (from alcohol). Similarly, V was received from

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Card 6/7

CZECHOSLOVAKIA/Organic Chemistry. Synthetic Organic E-2 Chemistry.

Abs Jour: Ref Zhur - Khimiya, No. 8, 1957, 26840.

and 35 ml of n-C4HoOH) and 3.6 g of VII was left at 20° for 2 hours and at 80° for 4 hours, boiled 3 hours, washed with water, the aqueous layer was extracted with ether and the combined butanol and ether extracts were distilled down, 2 g of VIII, melting point 107 to 108° (from 25%—ual alcohol) was obtained; iodomethylate, melting point 108-110° (from alcohol-ether). See RZhKhim, 1955, 21207 for report II.

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CZECHOSLOVAKIA/Organic Chemistry, Synthetic Organic E-2 Chemistry.

Abs Jour: Ref Zhur - Khimiya, No. 8, 1957, 26840.

125 - 126° (from alcohol). The alcohol solution was azeotropically distilled off with C6H6 in 3 hours? time from the mixture of C2H5ONa solution (of 3.4 g of Na and 75 ml of absolute alcohol) and 16.1 g of 2-methylmercaptoethylmercaptane, condensed down to 75 ml, 29 g of X was added, and 12 hours later the mixture was boiled 2 hours and decomposed with 75 ml of water, IV was separated by distillation of the organic layer, yield 50%, boiling point 182 - 190°/1 mm, melting point 45 - 56°; iodomethylate contains 2 mols of IV per 1 mol of CH3I, melting point 110° (from alcohol). The solution of 15 g of methylmercatide of sodium (XI) and 30 g of N-chloracetyl-2,4-xylidine in 300 ml of alcohol

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CZECHOSLOVAKIA/Organic Chemistry. Synthetic Organic E-2 Chemistry.

Abs Jour: Ref Zhur - Khimiya, No. 8, 1957, 26840.

off (the temperature of the bath reached 130° in 6 hours), the residue was mixed with 50 ml of 2%-ile CH3COOH and extracted with C6H6. I was received, yield 57%, melting point 90° (from alcohol). II, boiling point 148 - 155°/0.2 mm, 164 - 166°/0.5 mm, was received by boiling the solution of 28 g of n-butoxybenzoilchloride (boiling point 160 - 163°/10 mm) and 12.3 g of IX in 50 ml of C6H6 2.5 hours, yield 89%; icdomethylate, melting point 93 - 94°; III was prepared similarly to II (1.5 hour boiling of chloranhydride of a metoxycinnamic acid (X) boiling point 170 - 175°/8 mm) with IX in (C6H6), yield 79%, boiling point 195 - 198°/0.5 mm, 170 - 171°/0.2 mm; iodomethylate, melting point

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CZECHOSLOVAKIA/Organic Chemistry. Synthetic Organic E-2 Chemistry.

Abs Jour: Ref Zhur - Khimiya, No. 8, 1957, 26840.

N-(methylmercaptoacety1)-2-methyl-5,6,7,8-tetrahydro-1-naphthylamine (VI); of the percaine type - 2-methylmercaptoethylamides of 2-chlorocinchonine acid (VII) and 2-butoxycinchonine acid (VIII), as well as iodomethylates of I to VIII. Iodomethylate of II has the same activity as novocaine, the activity of iodomethylate of III is 20% of that of novocaine. The analogy of the physiological activity of sulfonium and ammonium salts extends also on the local anesthetics. Iodomethylate of VIII has no local anesthetic action. The mixture of 8.25 g of ethyl esters of n-aminobenzoic acid, 16 g of 2-methylmercaptoethanol (IX) and 0.05 g of Na was slowly heated with distilling

Card 2/7

Heros Hach, VC.

CZECHOSLOVAKIA/Organic Chemistry. Synthetic Organic E-2 Chemistry.

Ref Zhur - Khimiya, No. 8, 1957, 26840. Abs Jour:

Protiva, Miroslav; Simak, Vladislav, Hach, Vladimir, Exner, Otto. Author

Inst

Title

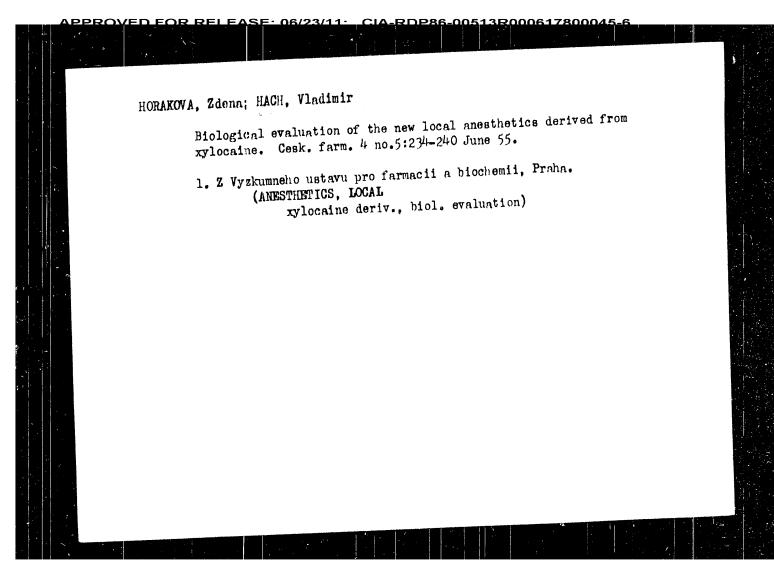
Local Anesthetics. III. Sulfonium Salts.

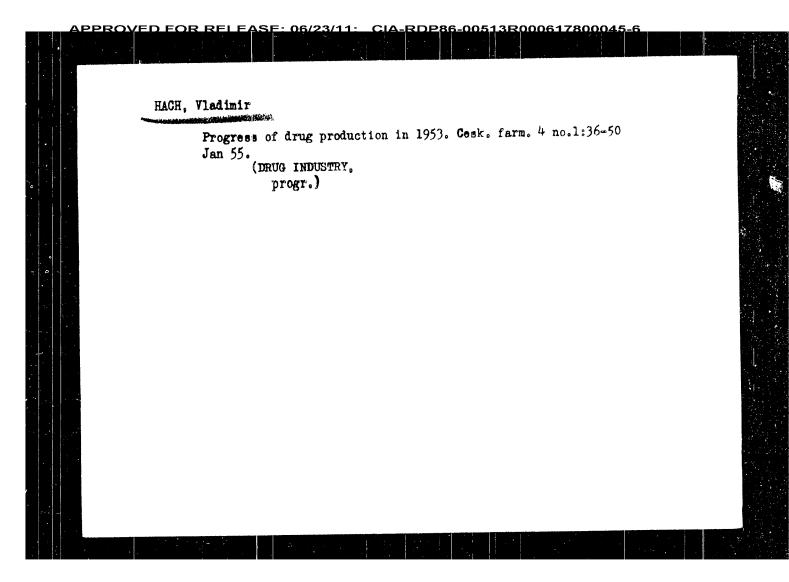
Chem listy, 1955, 49, No. 2, 222 - 226. Orig Pub:

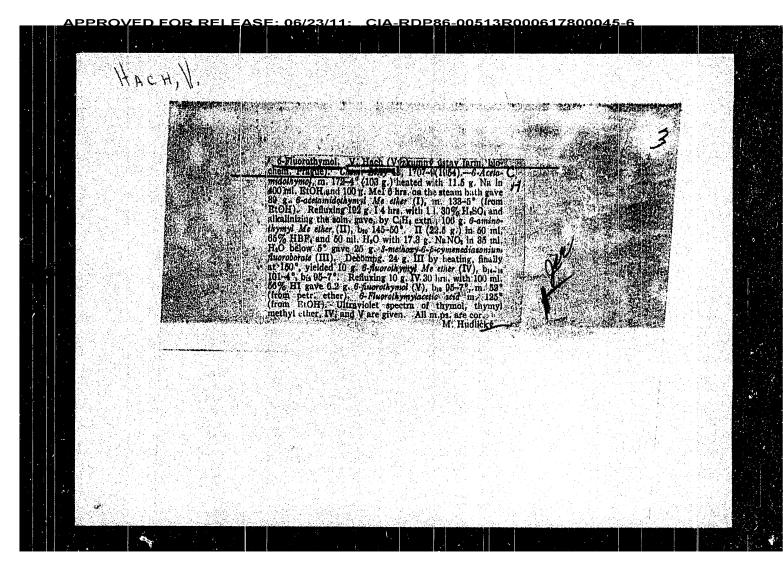
With a view to compare the local anesthetic Abstract: activity of analogous nitrous and sulfurous compounds, the following substances were produced: of the novocaine type - 2-methylmercapto-ethyl esters of n-amine (I), n-butoxybenzoic (II) n-metoxycinnamic (III) and n-metoxythiocinnamic (IV) acids; of the xylocaine type - N-(methyl-mercaptoacetyl)-2,4-xylidine (V),

Card 1/7

BOROVICKA, Milos; HACH, Vladimir Natural substances used as drugs; progress during 1954. Cesk. farm. 4 no.9:478-488 Nov 55. 1. Z Vyzkumneho ustavu pro farmacii a biochemii v Praze. (BIOLOGICAL PRODUCTS, pharmacol., review)





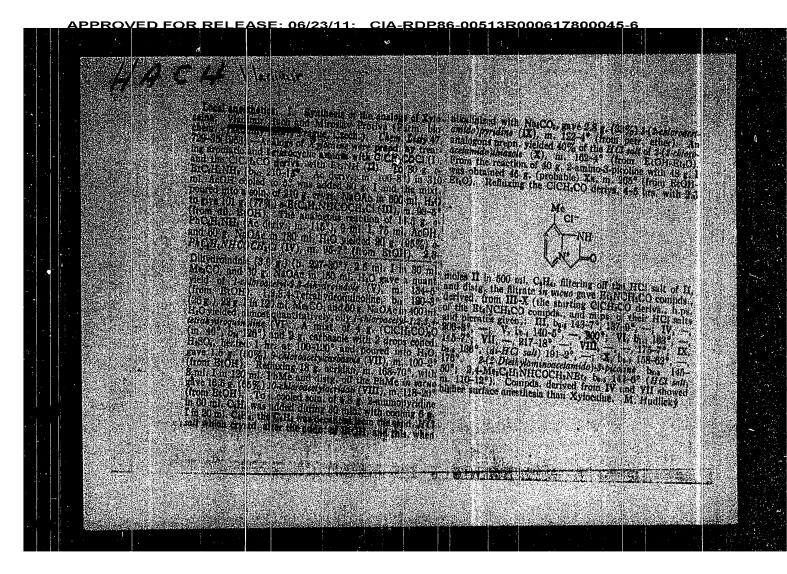


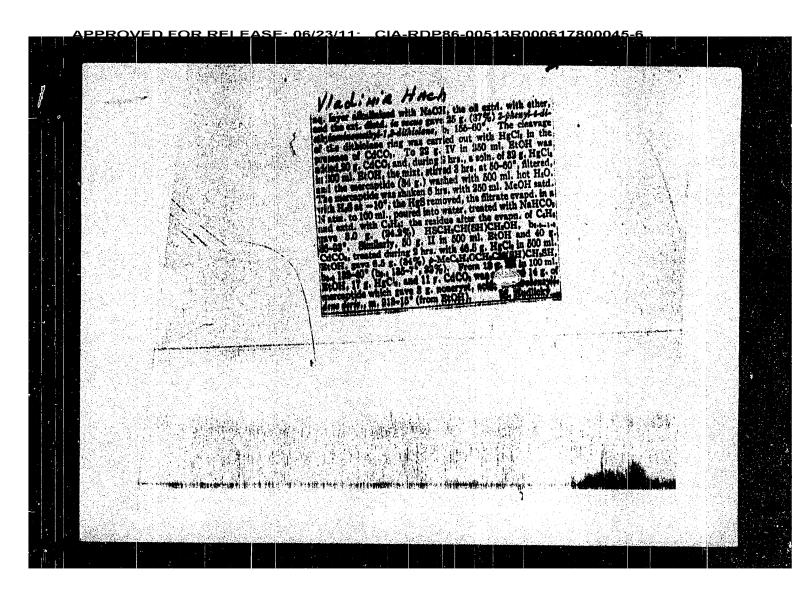
Hach, Vladimi Local anesthedes. II. Father analogs of Xylocahe.

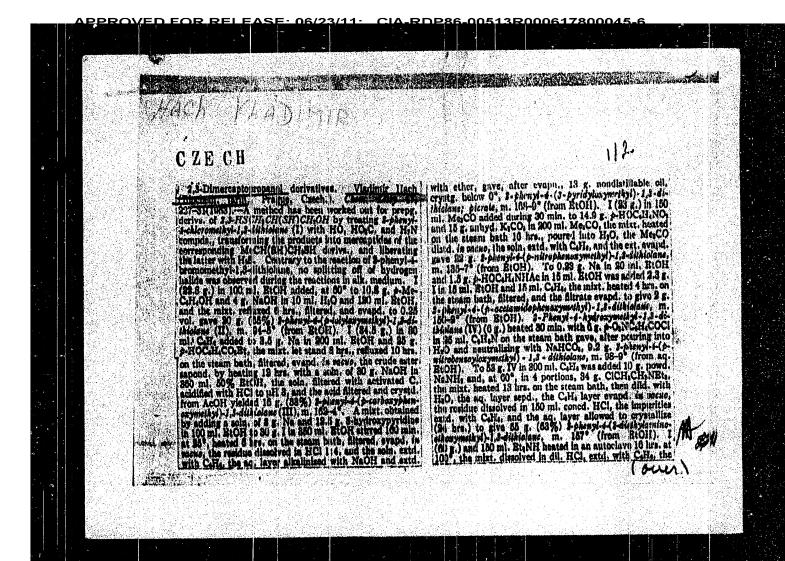
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2004.—Chieves Lylaton of aromatic annines and the mixt. into NaOAc solor, fittering, wash,
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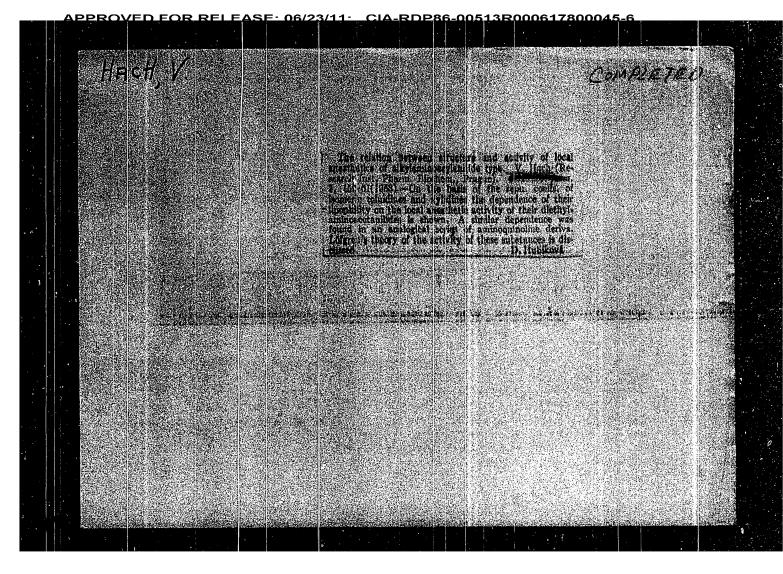
1.79-81 and 90% 5-chloroscethene, m. 113°. Heating
as and extra the mixt. into NaOAc solor, \$6,7,8 derivaly-onaphihalene, m. 113°.

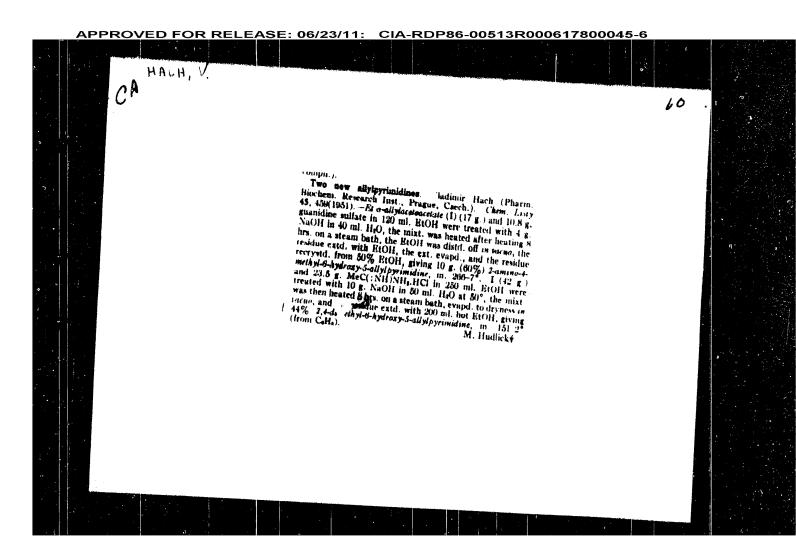
2.59,7.8 - tetrohydronaphihalene, m. 115°.
2.50,7.8 - tetrohydronaphihalene, m.











APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800045-6

HACH, V.

Anticoagulant Substances. VIII, Nitrogen Analogs of Dicoumarol and Pelentan. K. Fucik, Z. Prochazka, V. Hoch, and J. Strof (United Pharmacy Works, Prague, Czech.). Chem. Listy 45, 23-5 (1951); cf.C.A. 45, 6680c; 9726e. -

CH₂O with h-hydroxycarbostyryl (I) give 3.3'-methylenebis-(h-hydroxycarbostyryl) (II). I and OHCCO₂H (IV) give bis(h-hydroxy-3-carbostyryl)acetic acid (III). (IV and 2,h-dihydroxynaphthyridine (V) yiled 3,3'-methylenebis(2,h-dihydroxynaphthyridine) (VI). Prepr. of II: 25 g. I in 750 ml. boiling HCl dild. 2:3 was filtered with Norit and the filtrate treated with 100 mil. 38% soln. of CH₂O; the yellowish product (21.5 g.), crystd. from PhCH₂OH, does not melt below hOO²O. The condensation may be carried out in PhCH₂OH, EtOH, or AcOH with CH₂O or paraformaldehyde. I (17 g.) in 255 ml. boiling HCl dild. 2:3 was treated with hO ml. 11% aq. soln. of IV and boiled 7 hrs., giving 15 g. of a reddish product, m. above hOO² (from C₂H₂N). III refluxed with excess alc. satd. with HCl gave Me, Et, and Pr esters, m. above hOO². III and CH₂N₂ in Et₂O gave a compd. m. 2hO² (from Me₂CO), contg. 3 MeO groups. V (h g.) in hOO ml. dild. HCl boiled 1 hr. with 25 Ml. 38% CH₂O gave VI.

HACAR, B. "Contribution to the determination of temperature decrease on edges of disk of covered double stars." p. 111. OLOMOUC, CZECHOSLOVAK REPUBLIC. VYSOKA SKCLA PEDAGOGICKA. SBORNIK. PRIRODNI VEDY. Olomouc, Czechoslovakia, No. 3, 1957. Monthly List of East European Accessions (EEAI), LC, Vol. 8, No. 8, August, 1959. Uncl.

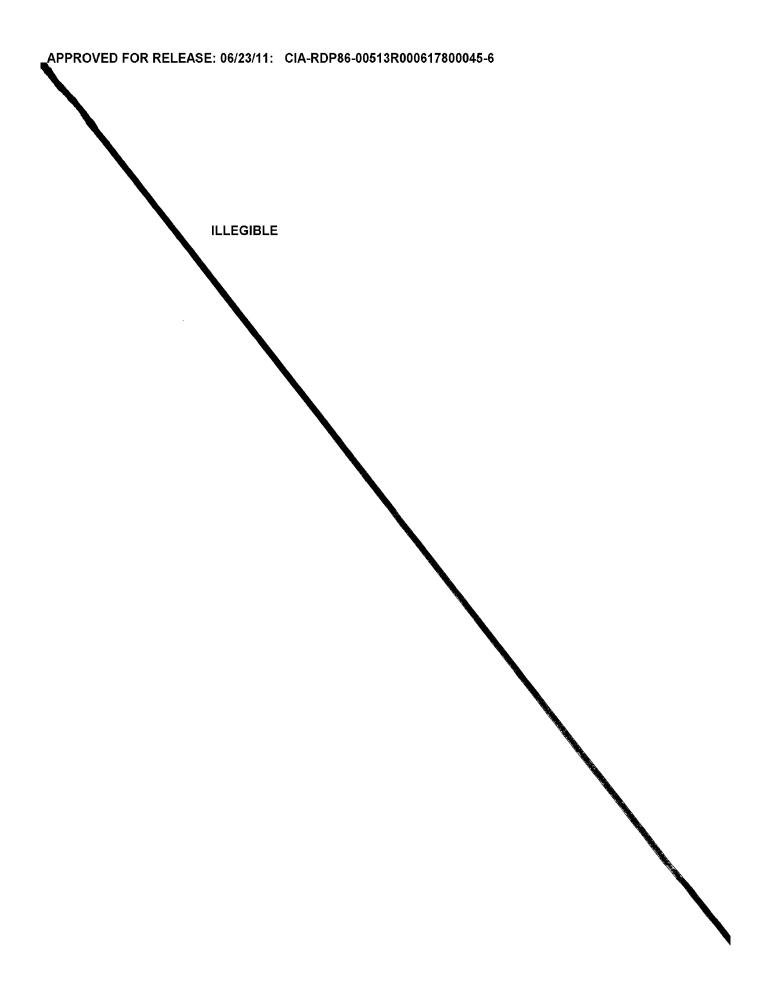
HACAR, B. Academician Frantisek Klokner has completed his eighty-fifth year. p. 506 (Inzenyrske Stavby) Vol. 5, no. 10, Cct. 1957, Fraha, Czechoslovakia SC: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (EEAI) LC, VCL. 7, NO. 1, JAN. 1958

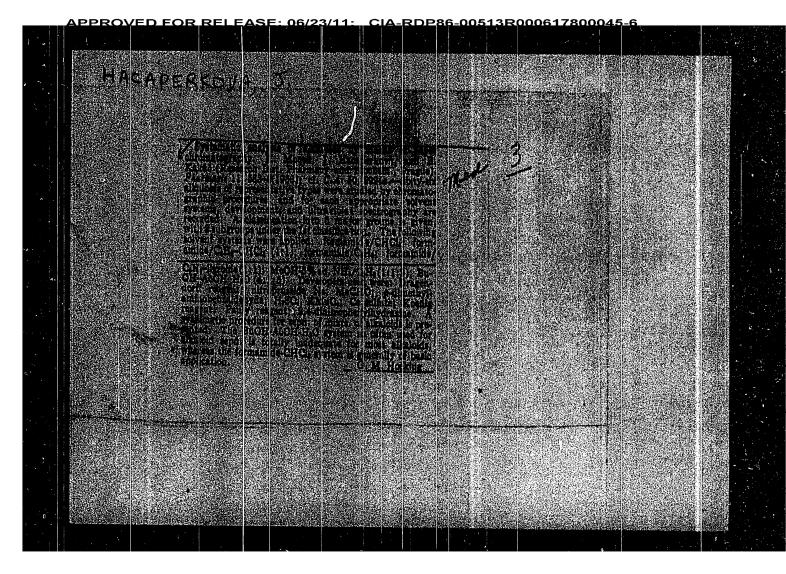
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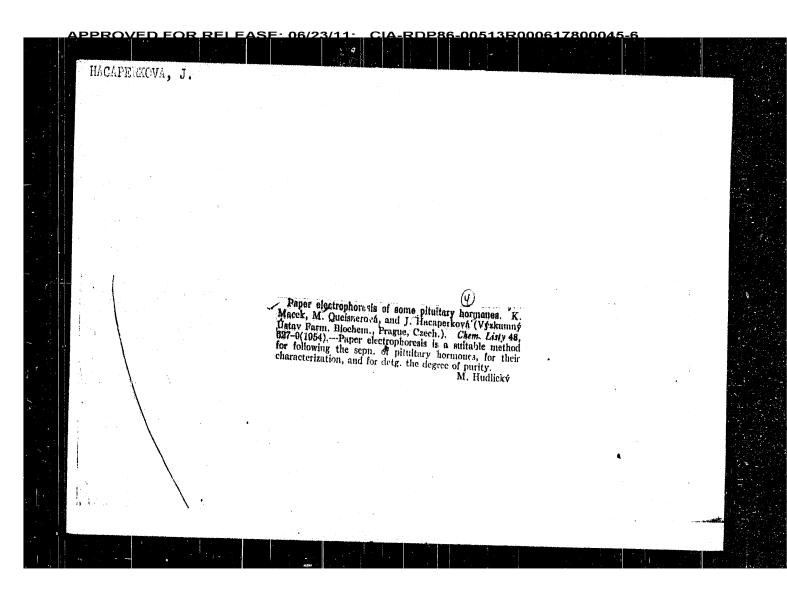
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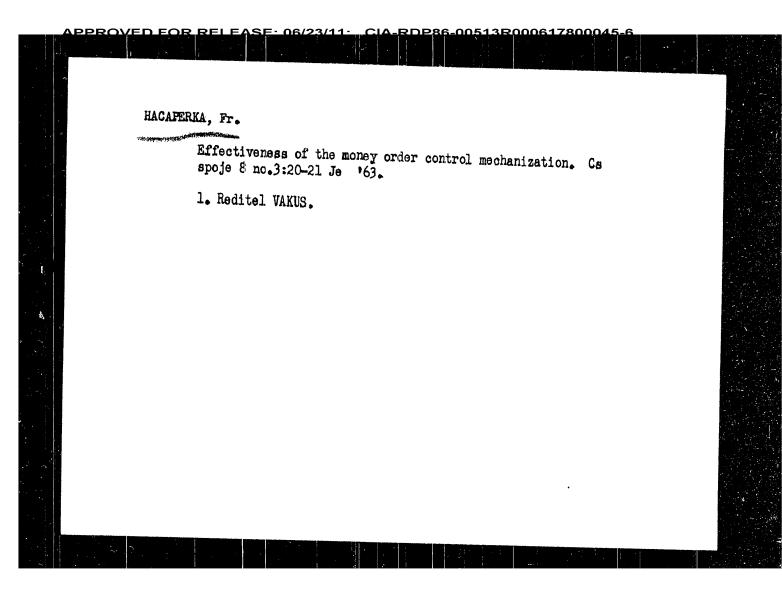
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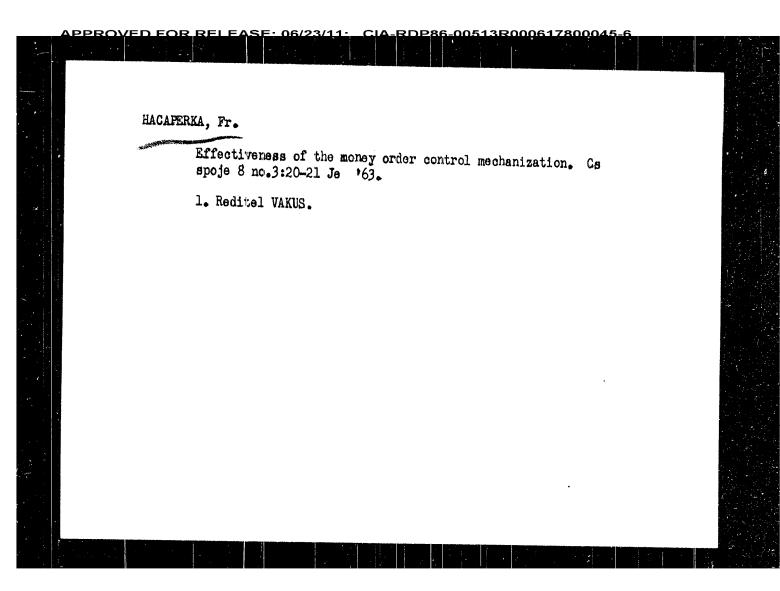
COLUMN : Ozecnoslovakia Certificht. 5-12 AUC. JOUR. : Radium., do. 21 1950, Mo. 75816 ACT DA : Macek, K., Hacaperkova, J., and Kalina, K. J. C. 311. : Not given : The fise of Paper Chromatography in the Control of the Synthesis of Fyridoxine 0770. 20p. : Ceskoslov Farmac, 7, No 7, 400-400 (1953) A CTALOR : A chromatographic method has been developed for the determination of the substances formed in the synthesis of pyridoxine by the method of Harris and Folkers (JACS, 61, 1245 (1939)). The new procedure makes it possible to determine with sufficient accuracy the degree of purity of the individual products, the amount of side products formed, or the concentration of starting materials. From authors' summary JAJJ: 1/1 233

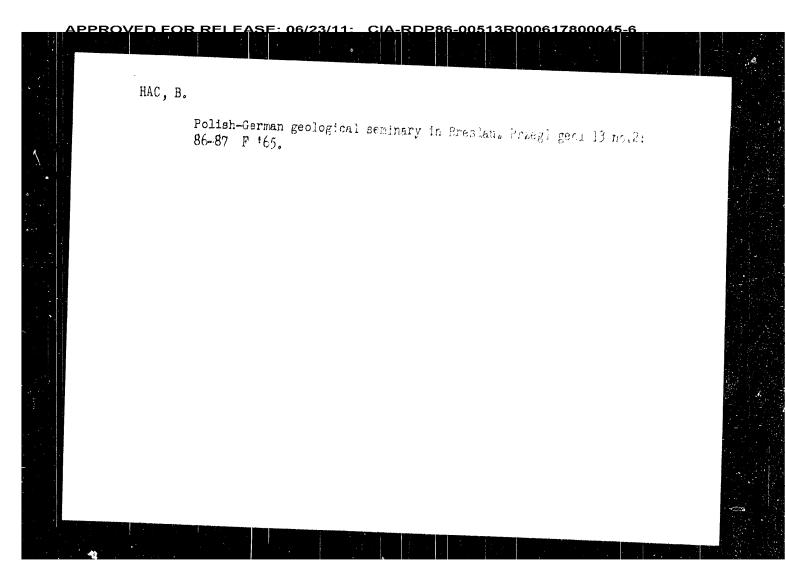












HAC, Aleksander. KOSTRZEWSKI, Jan; GRUZEWSKI, Aleksander; HAC, Aleksander Typhus abdominalis and its relation to age, sex, environment and seazons during 1946-50. Przegl. epidem., Warsz. 8 no.4:247-264 1954. 1. Z Dzialu Epidemiologii Panstwowego Zakladu Higieny. (TYPHOID FEVER, statistics, in Poland, age, environmental, sex & seazonal factors)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000617800045-6

YUG/2-59-4-10/16

Hollow Glass Industry in the Federal People's Republic of Yugoslavia and the Export of Its Products.

and does not conform with the requirements of foreign markets. The main producers of pressed glass are the plants in Hrastnik, Paraćin and Skepje. Domestic requirements for glass bottles for alcoholic and non-alcoholic drinks are fully met by the domestic industry. The main foreign buyer is Italy and although demand has been increased the domestic industry is not able to cope with the Italian export orders since the production capacity of the two plants producing this type of goods, i.e. the plants in Paraćin and Rogatec, is limited. It is hoped that with the completion of some plants, the construction of which is still in progress, this situation will be improved.

Card 3/3

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Hollow Glass Industry in the Pederal People's Reputite of Yagoslavia and the Export of Its Products.

Tvornica stakla (Glass Plant) "Kristal" in Gemobor, and Tvornica stakla (Glass Plant) "Straža" in Rogatec. Three types of glass products are exported, a) blown glass products,b) pressed Glass products and c) glass bottles. Hollow blown glass is the main export item which is exported to USA, Great Britain, West Germany and some other European countries. In view of the foreign demand for this item an increase in export is envisaged but this increase is dependent on a detailed study of the export market and better organization of export production. The export of present class products, such as ashtrays, vases and glasses, is connected with certain difficulties, i.e. packing and transportation. Yugoslavia does not have suitable packing material, such as reinforced cardboard, and the use of wooden cases involves higher transportation costs

Card 2/3

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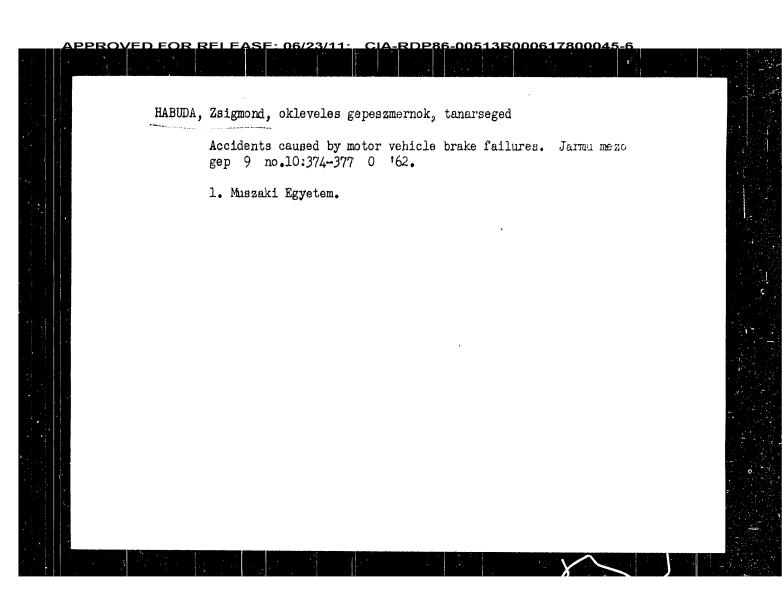
ABSTRACT:

The author reviews the development of the domestic glass industry since the War with particular reference to export. The domestic glass industry satisfies most of the demands of the population and only special types of technical glass, not produced by domestic plants, are imported. The main glass producers and exporters of glass products are Steklarna (Glass Plant) "Boris Kidrič" in Rogaška Slatina, Steklarna (Glass Plant) "Hrastnik" in Hrastnik, Srpska fabrika stakla (Serbian Glass Plant) in Paracin, Fabrika za staklo i staklena volna (Glass and Glass Wood Plant) in Skopje,

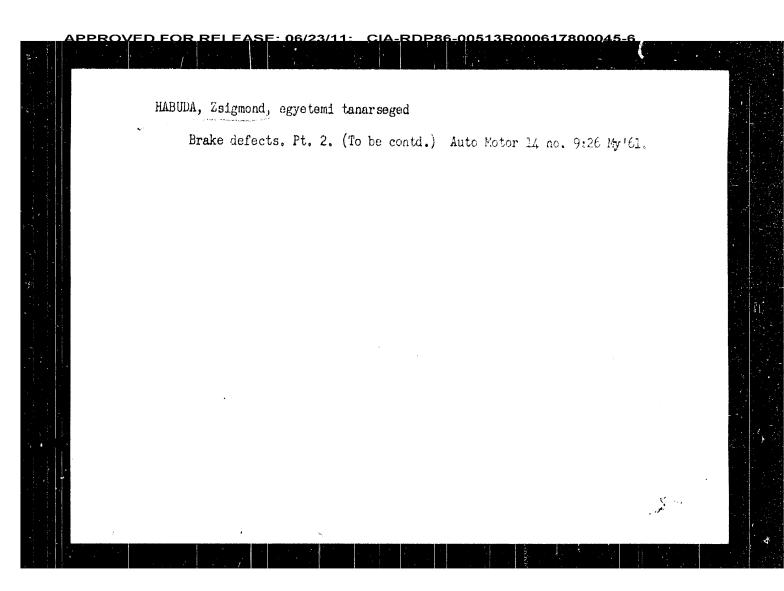
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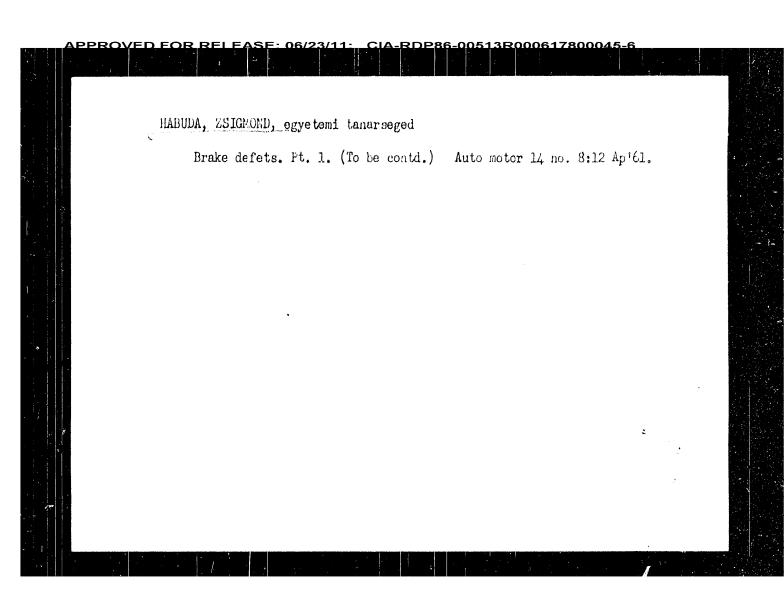
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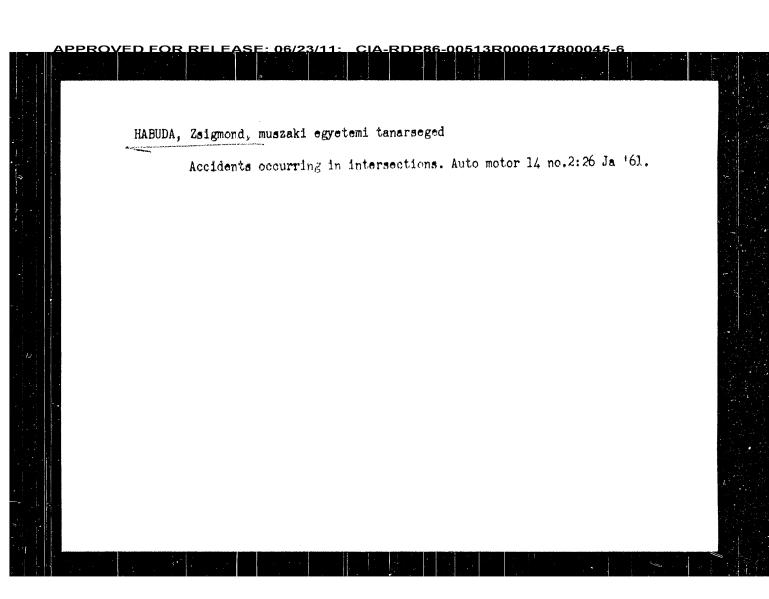
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